

WHAT IS CLAIMED IS:

1. A headlamp comprising:
 - a light source;
 - a shade that forms a light distribution pattern for a low beam when the
 - 5 shade is in a low beam position and a light distribution pattern for a high beam
 - when the shade is in a high beam position with a light from the light source;
 - a solenoid that shifts the shade from the low beam position to the high
 - beam position;
 - a stopper mechanism that stops the shade at either of the low beam
 - 10 position and the high beam position; and
 - a spring that shifts back the shade from the high beam position to the
 - low beam position.
2. The headlamp according to claim 1, wherein the spring is a
- 15 cone-shaped coil spring.
3. The headlamp according to claim 1, wherein the stopper mechanism
- comprises
 - a plurality of protruding-portions provided on a part of the shade; and
 - 20 a stopper including a plurality of protrusions abutting against
 - corresponding protruding-portions when the shade is shifted to either of the low
 - beam position and the high beam position.

4. The headlamp according to claim 3, wherein
the protruding portions include abutting surfaces having an angle with
respect to a longitudinal direction of the solenoid, and
each of the protrusions are provided in parallel with corresponding
5 abutting surfaces.
5. The headlamp according to claim 3, wherein the stopper has an
elasticity at least in the protrusions.
- 10 6. The headlamp according to claim 3, wherein the stopper mechanism
includes two protruding-portions with four abutting surfaces.
7. The headlamp according to claim 3, wherein the stopper includes four
protrusions.
- 15 8. The headlamp according to claim 1, wherein the solenoid is a pull-type
solenoid.